## In the Claims:

- (Original) A method of forwarding a packet to a destination comprising:
   examining a header of said packet to determine a private destination address;
   determining a private address of a private remote sub-endpoint of a tunnel, said private
   sub-endpoint being associated with said private destination address:
- determining a public address of a public remote sub-endpoint of said tunnel; encapsulating said packet, resulting in an encapsulated packet, to indicate a public address of a public local sub-endpoint of said tunnel as a source address and said public address of said public remote sub-endpoint of said tunnel as a destination address; and forwarding said encapsulated packet to a node in a carrier network.
- 2. (Original) The method of claim 1 wherein said tunnel is a point to multipoint tunnel.
- 3. (Currently Amended) The method of claim 1 wherein said determining said private address of said first private remote sub-endpoint of said tunnel comprises consulting a routing table to discover an address associated with said private destination address of said packet.
- 4. (Currently Amended) The method of claim [[6]] 1 wherein said determining said public address of said second public remote sub-endpoint of said tunnel comprises consulting a static address resolution protocol table to discover an address associated with said private address of said first remote sub-endpoint of said tunnel.
- 5. (Original) The method of claim 1 further comprising determining a private address of a first local sub-endpoint of said tunnel.
- 6. (Currently Amended) The method of claim 5 wherein said determining said private address of said first local sub-endpoint of said tunnel comprises consulting a forwarding table to discover an address associated with said private address of said first private remote sub-endpoint of said tunnel.
- 7. (Original) A carrier router comprising:

a backbone router including:

a public network interface for connecting to a public data network; and
a sub-endpoint for a tunnel having a network address in an address space of said
public data network; and

a customer virtual router including:

a private network interface for connecting to a private data network; and a sub-endpoint for said tunnel having a network address in an address space of said private data network.

- 8. (Original) A carrier router comprising:
  - a private network interface;
  - a public network interface;
  - a processor operable to:

receive a packet at said private network interface;

examine a header of said packet to determine a private destination address;

determine a private address of a private remote sub-endpoint of a tunnel, said
private sub end-point being associated with said private destination address;

determine a public address of a public remote sub-endpoint of said tunnel;
encapsulate said packet, resulting in an encapsulated packet, to indicate a public
address of a public local sub-endpoint of said tunnel as a source address and said public address
of said public remote sub-endpoint of said tunnel as a destination address; and

forward said encapsulated packet to a node in a public network via said public network interface.

9. (Original) A computer readable medium containing computer executable instructions which, when performed by a processor in a carrier router, cause the processor to:

examine a header of said packet to determine a private destination address;

determine a private address of a private remote sub-endpoint of a tunnel, said private sub-endpoint being associated with said private destination address;

determine a public address of a public remote sub-endpoint of said tunnel;

encapsulate said packet, resulting in an encapsulated packet, to indicate a public address of a public local sub-endpoint of said tunnel as a source address and said public address of said public remote sub-endpoint of said tunnel as a destination address; and

forward said encapsulated packet to a node in a carrier network.

10. (Original) A method of receiving a packet, said packet having public source and destination addresses and private source and destination addresses, said method comprising:

receiving said packet from a node in a carrier data network;

forwarding said packet to a first tunnel sub-endpoint having said public destination address;

at said first tunnel sub-endpoint, removing said public source and destination addresses from said packet;

forwarding said packet to a second tunnel sub-endpoint; and

at said second tunnel sub-endpoint, forwarding said packet to a device having said private destination address.

11. (Original) A computer readable medium containing computer-executable instructions which, when performed by a processor in a carrier router, cause the processor to:

receive said packet from a node in a carrier data network;

forward said packet to a first tunnel sub-endpoint having said public destination address; at said first tunnel sub-endpoint, remove said public source and destination addresses from said packet;

forward said packet to a second tunnel sub-endpoint; and

at said second tunnel sub-endpoint, remove said packet to a device having said private address.

12-16. (Canceled).